

REVISIONS				
REV	DESCRIPTION	DR	CH	DATE
E0	PROD REL PER EN 107			
E1	INCORP EN 1003			
E2	INCORP EN 5104			
E3	INCORP EN 5120			
E4	INCORP PER EN 5901D			
E5	INCORP PER EN 59254			
E6	INCORP PER EN 6110H			
E7	INCORP PER EN 6223H			
E8	INCORP PER EN 6392H			

P2	SIGNAL	DIRECTION	LOCATION
PIN 201	GND	→	D16
202	GND	→	D16
203	+12V	→	D13
204	+12V	→	D13
205	+12V	→	D13
206	+12V	→	D13
207	-12V	→	C13
208	-12V	→	C13
209	DPIN	→	B11
210	DPOT	→	B11
211	ESSEL	→	B22
212	NU	→	
213	+5V	→	D13
214	+5V	→	D13
215	MST	→	C23
216	AL	→	C38
217	MADE	→	C22
218	RD	→	B40
219	EBA	→	B18 (1)
220	SIB	→	B40
221	PFQ	→	A40
222	ADIS	→	A22
223	AB08	→	C40
224	AB09	→	B40
225	AS10	→	B40
226	AB11	→	B40
227	GND	→	C16
228	GND	→	C16
229	AB12	→	A40
230	AB13	→	B40
231	AB14	→	B40
232	AB15	→	A40
233	NU	→	
234	NU	→	
235	NU	→	
236	NU	→	
237	MBIN	→	A22
238	MBOT	→	A17
239	DB00	→	A31
240	DB01	→	A31
241	DB02	→	A31
242	DB03	→	A31
PIN 243	+5V	→	D16

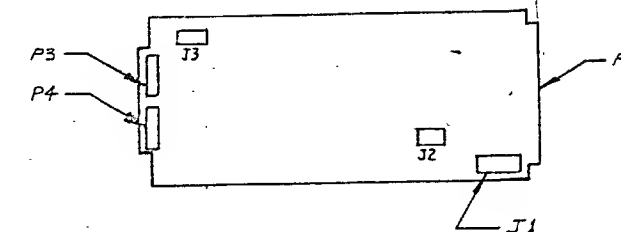
P2	SIGNAL	DIRECTION	LOCATION
PIN 244	+5V	→	D16
245	DB04	→	A29
246	DB05	→	A29
247	DB06	→	A29
248	DB07	→	A29
249	DB08	→	A28
250	DB09	→	A28
251	DB10	→	A28
252	DB11	→	A28
253	DB12	→	A27
254	DB13	→	A27
255	DB14	→	A27
256	DB15	→	A27
257	NU	→	
258	NU	→	
259	GND	→	C16
260	GND	→	C16
261	NU	→	
262	NU	→	
263	CLKP	→	A22
264	TUR	→	B17
265	NU	→	
266	NU	→	
267	NU	→	
268	NU	→	
269	NU	→	
270	NU	→	
271	NU	→	
272	NU	→	
273	+5V	→	D16
274	+5V	→	D16
275	AB03	→	D40
276	AB04	→	C40
277	AB05	→	C40
278	AB06	→	C40
279	AB07	→	C40
280	AB00	→	D40
281	AB01	→	D40
282	AB02	→	D40
283	PRIN	→	B12
284	PRQ	→	B11
285	GND	→	C16
PIN 286	GND	→	C16

J1	SIGNAL	DIRECTION	LOCATION
PIN 1	DPOT	→	F13
2	NU	→	
3	NU	→	
4	GND	→	B13
5	MBIN	→	B13
6	PRIN	→	B13
7	PRQ	→	B13
8	NU	→	
9	NU	→	
10	NU	→	
11	NU	→	
12	NU	→	
13	NU	→	
14	NU	→	
15	NU	→	
PIN 16	NU	→	

P3 & P4	SIGNAL	DIRECTION	LOCATION
PIN 1	PRQ	→	C12
2	+12 INT	→	D12
3	-5 INT	→	C12
4	+5 INT	→	
5	GND	→	
6	GND	→	
7	+5 INT	→	
8	-5 INT	→	C12
9	+12 INT	→	D12
PIN 10	PRQ	→	C12

J3	SIGNAL	DIRECTION	LOCATION
PIN 1	BATT	→	C38
2	+12 INT	→	A14
3	+5 INT	→	
4	-5 INT	→	
5	-5V	→	
6	+5V	→	
7	+12V	→	A14
8	NU	→	
9	GND	→	A14
10	FREF	→	C24
11	REF REQ	→	C21
12	CLK	→	D19
13	FCLK	→	D20
14	FSTOP	→	C20
15	REFC	→	C23
PIN 16	FRUN	→	C21

J2	SIGNAL	DIRECTION	LOCATION
PIN 1	CLR	→	A34
2	REF	→	C21
3	DOSU	→	A36
4	DISU	→	A36
5	DISF	→	B36
6	DISL	→	
7	DOSF	→	
8	DOSL	→	B36
9	DIS	→	B23
10	STRB	→	B23
11	GND	→	C23
12	NU	→	
13	NU	→	
14	NU	→	
15	NU	→	
PIN 16	NU	→	



TABULATION BLOCK				
DASH NO.	DESCRIPTION	BILL OF MATERIALS	SYSTEM	WIRING
-08	BASIC 8K	70-53642-08	LSI 2/3	W1(B18)
-04	4K OPTION	70-53642-04	LSI 2/3	W1(B18)
-14	4K OPTION	70-53642-14	LSI 4	W1(B18) W2(E1-E2) W3(B20)
-18	BASIC 8K	70-53642-18	LSI 4	W1(B18) W2(E1-E2)

UNUSED GATES/IC				
REF. DES.	IC TYPE	UNUSED PINS	POWER	
		IN	OUT	
32	7406	3	8	+5V
32	7406	11	10	+5V
37	74LS04	1	2	+5V
37	74LS04	3	4	+5V
62	SPARE			+5V
87	96LO2	1,2,3,4,5	9,10	+5V
62	7408	5,12,13	6,11	+5V

NOTES UNLESS SPECIFIED		DR. A. J. J. J. J.
1. TOLERANCES	ANGULAR	
XX ±.03	XXX ±.01	
2. BREAK ALL SHARP EDGES	DID APPROX.	
3. ALL DIM. IN INCHES		
DASH NO.	NEXT ASSEMBLY	
-08	75-20-25-14	
-04		

Computer Automation		18551 Von Karman Blvd., Suite 200, Redwood City, CA 94063
TITLE	LOGIC DIAGRAM,	WDS MEMORY
SIZE	D	DWG. NO.
DO NOT SCALE	SCALE = 112NE	SHT. 1 OF 1

- 11 FOR -1, -18 ONLY
- 10 REFERENCE DESIGNATOR C60 NOT USED.
- 9 LAST REFERENCE DESIGNATOR USED IC88, CR2, VR1, Q4, R22, C84, J3, P4, L2, W3.
- 8 FOR 4K, OMIT THE FOLLOWING COMPONENTS: RESISTOR R3, IC'S 16-31, CAPACITORS C16-19, 21-26, 28, 33, C73-75, TRANSISTOR Q2.
- 7 ALL 2.2UF CAPACITORS ARE 10%, 20V.
- 6 ALL .033UF CAPACITORS ARE ±50% -20%, 25V.
- 5 ALL CAPACITOR VALUES ARE IN nF.
- 4 ALL RESISTOR VALUES ARE IN OHMS, ±5%, 1/4W.
- 3 SIGNALS MARKED → ARE INPUTS.
- 2 SIGNALS MARKED ← ARE OUTPUTS.
- 1 FOR LSI 2 LEARNERS V.D. SEE TABULATION BLOCK.

NOTES: UNLESS OTHERWISE SPECIFIED

